Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0009 Sutter Maintenance Yard Tisdale Bypass	Overall LMA Rating	Total LMA Miles 8.93						
			nce Deficiancy		Enforcement Design & Sy Obsolesce			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles		
Earthen Levee								
Encroachments					3.28			
Erosion / Bank Caving	0.03		0.03	0.34%				
Supplemental								
DWR UCIP Field Study					0.07			
LMA Totals:	0.03	0.00	0.03	0.34%	3.35	0.00	0.00	0.00
Unit No. 01 Tisdale Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0009	A	4.50						
		Maintena	nce Deficiancy		Enforcement Design & Syst			System
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Encroachments					1.92			
Supplemental								
DWR UCIP Field Study					0.01			
Unit Totals:	0.00	0.00	0.00	0.00%	1.93	0.00	0.00	0.00
Unit No. 02 Tisdale Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0009	Α	4.43						
Rated Item		Maintenance Deficiancy				Enforcement Design & Syst		
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Encroachments					1.36			
Erosion / Bank Caving	0.03		0.03	0.68%				
Supplemental								
DWR UCIP Field Study					0.06			
Unit Totals:	0.03	0.00	0.03	0.68%	1.42	0.00	0.00	0.00

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)				
* Overall LMA Rating (Fall Only)			A					
** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.								
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall. FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.								
comments								

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles
Unit No. 01 Tisdale Bypass	Left	4.50

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/05/2013 - 03/05/2013		10/08/2013 - 10/08/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.50	10/08/2013 10/08/2013	Bob Duffey

LMR	Levee		Category	Item	Location	Rating	Action/Comment		de/Longitude	Issue No.
No.	Start	End	0 ,		on	+ 9		Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		0	0	2
								DWR ID: DWR_5	ST0009_01_s _ 2013_	_2
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		o o DWR ID: DWR_S	o o ST0009_01_s _ 2013_	4
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		o o DWR ID: DWR \$	o o ST0009_01_s _ 2013_	J
4	2.18	4.10	Earthen Levee	Encroachments	LS	M En	PO : Pole	39.028173 ° -121.781475 °		3 Y
5	3.64	3.64	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:13493 EP_NO: 14740 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/20/2013 Carsonite marker on WS shoulder missing and should be replaced. FIELD_STRUCT_DESC: 4-inch pipe through levee and under channel 2.5 feet below crown. Carsonite signes on both LS and WS shoulder. Gas Wells 200-feet off of LS toe. (Permit No. 14740 - Nahama and Weagant Energy Co.) Drawings available. FS Date: 5/20/2013 11:57:18 AM	39.027911° -121.754224°	39.027911° -121.754224°	1 Y
								DWR ID: DWR_S	ST0009_01_f _ 2013_	1
6	3.66	3.66	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard has burned and dragged both slopes.	39.027898 ° -121.753837 °	39.027898 ° -121.753837 °	6 Y
								DWR ID: DWR_S	ST0009_01_f _ 2013_	.6

* Location LS: Land Side WS: Water Side CR: Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.50	10/08/2013 10/08/2013	Bob Duffey

Levee Mile Report Line	4					
Start Levee Mile	2.18					
End Levee Mile	4.10					
Location	Land Side					
Category	Earthen Levee					
Item	Encroachments					
View of the PG&E poles along the landside crown						

of the levee.

rduffey_f_20130919_829.jpg

Levee Mile Report Line	5
Start Levee Mile	3.64
End Levee Mile	3.64
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Carsonite sign on LS shoulder with view of gas well in background.

UCIP_7318.jpg

Levee Mile Report Line	6				
Start Levee Mile	3.66				
End Levee Mile	3.66				
Location	Land Side				
Category	Earthen Levee				
Item	Vegetation				
View of the burned and dragged slopes of the					

levee.

rduffey_f_20131015_085.JPG







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+ Issue Type
Ma · Mainter

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles
Unit No. 02 Tisdale Bypass	Right	4.43

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/05/2013 - 03/05/2013		10/08/2013 - 10/08/2013	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

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Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Tisdale Bypass

				Wa	terwa	ау		Bank	Unit Miles	Inspection Start/End	Inspector	
				Unit No. 02	Tisd	ale	Bypass	Right	4.43	10/08/2013 10/08/2013	Bob Duffey	
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitude/L	ongitude Issu No End Pho	٥.
1	0.11	0.25	Earthen Levee	Encroachments	LS	M En	DT : Ditch			39.023760 ° 3 -121.818875 ° -12 DWR ID: DWR_ST000		
2	0.52	1.74	Earthen Levee	Encroachments	LS	M En	DT : Ditch			39.025539 ° 3 -121.811540 ° -12 DWR ID: DWR_ST000		
3	1.01	1.01	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.			39.025542 ° 3 -121.802468 ° -12 DWR ID: DWR_ST000		
4	1.14	1.14	Supplemental	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:6727 EP_NO: 267 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burrowing along down concrete vault on WS Toe. May need to FIELD_STRUCT_DESC: 54-inch concre levee, 29.5 feet below the crown. Slide g ends. Waterward end gate in 5-foot by 6 box. Landward end gate in concrete "U" pipe under and across bypass, steel con (Permit No. 267 & 290 - Sutter Basin Wa FS Date: 10/17/2012 8:52:00 AM	be groute te pipe the gates on be foot conducted headwall.	ide of ed. rough ooth crete Siphon	39.025503 ° 3 -121.800053 ° -12		
5	1.14	1.14	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:6726 EP_NO: 267 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burrowing along down concrete vault on WS Toe. May need to FIELD_STRUCT_DESC: 54-inch concre levee, 29.5 feet below the crown. Slide g ends. Waterward end gate in 5-foot by 6 box. Landward end gate in concrete "U" pipe under and across bypass, steel con (App. Nos. 267 & 290 - Sutter Basin War FS Date: 10/17/2012 8:52:34 AM	be groute ete pipe the gates on be foot cond headwall. acrete end	ide of ed. rough ooth crete Siphon		9.025503° 12	2
_										DWR ID: DWR_ST000	9_02_f _ 2013_12	_
6	1.14	1.14	Supplemental	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:13488 EP_NO: 267 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burrowing along down concrete vault on WS Toe. May need to grouted.5/20/2013 Same as last inspect FIELD_STRUCT_DESC: 54-inch concret levee, 29.5 feet below the crown. Slide g ends. Waterward end gate in 5-foot by 6 box. Landward end gate in concrete "U" pipe under and across bypass, steel con (Permit No. 267 & 290 - Sutter Basin Wa FS Date: 5/20/2013 11:53:57 AM	be tion. ete pipe th gates on b -foot cond headwall. acrete end	rough ooth crete Siphon	39.025503 ° 3 -121.800053 ° -12	1.800053°	3

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+ Issue Type Ma : Mainter

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/08/2013 10/08/2013	Bob Duffey

							· ·			10/00/2010	Dulle	,
LMR No.	Levee	Mile End	Category	Item	Location	Rating	Action/Comment			GPS Latitude Start	/Longitude End	Issue No. Photo
7	1.29	1.29	Earthen Levee	Erosion / Bank Caving	WS	M Ma				39.025478 ° -121.797232 ° -1 DWR ID: DWR_ST0		
8	1.50	1.50	Earthen Levee	Erosion / Bank Caving	WS	M Ma				39.025446 ° -121.793347 ° -1 DWR ID: DWR_ST0		5 Y
9	2.53	2.53	Earthen Levee	Animal Control	WS	C Ma	A3 : No rodents visible, but rodent burrow backfill and compact or grout burrows.	vs visible		39.025271 ° -121.774186 ° -1 DWR ID: DWR_ST0		7
10	4.21	4.21	Supplemental	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:16283 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to identify permit FIELD_STRUCT_DESC: Natural gas pip LS shoulder and toe and WS shoulder ar FS Date: 5/20/2013 7:43:43 AM	eline ma	sing.	-121.743420° -1	21.743420°	
										DWR ID: DWR_ST0	009_02_f _ 2013_ ⁻	14
11	4.21	4.21	Supplemental	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:16284 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to identify permit FIELD_STRUCT_DESC: Natural gas pip LS shoulder and toe and WS shoulder ar photos available. FS Date: 5/20/2013 7:43:00 AM	eline ma	sing. rkers on	39.024079° -121.743420° -1	39.024079 ° 21.743420 °	15
										DWR ID: DWR_ST0	009_02_f _ 2013_	15
12	4.21	4.21	Supplemental	DWR UCIP Field Study	WS		Inspector Comments: FS_ID:16732 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to identify permit FIELD_STRUCT_DESC: Natural gas pip LS shoulder and toe and WS shoulder ar photos available. FS Date: 5/20/2013	eline ma	sing. rkers on	39.024079 ° -121.743420 ° -1		
_										010		

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Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/08/2013 10/08/2013	Bob Duffey

Levee Mile Report Line	1			
Start Levee Mile	0.11			
End Levee Mile	0.25			
Location	Land Side			
Category	Earthen Levee			
Item	Encroachments			
View of the agricultural ditch and erosion along the landside toe of the levee.				

rduffey_f_20130919_830.jpg

Levee Mile Report Line	2
Start Levee Mile	0.52
End Levee Mile	1.74
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the ag ditch next to the L/S toe.

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Levee Mile Report Line	3
Start Levee Mile	1.01
End Levee Mile	1.01
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the waterside toe of the levee.

rduffey_f_20130919_832.jpg







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+ Issue Type

Levee Inspection Report By Mile - Fall 2013

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Tisdale Bypass	Right	4.43	10/08/2013 10/08/2013	Bob Duffey	

Levee Mile Report Line	4				
Start Levee Mile	1.14				
End Levee Mile	1.14				
Location	Water Side				
Category	Supplemental				
Item	DWR UCIP Field Study				
Slide gate at concrete outlet on LS toe.					

UCIP_2920.jpg

Levee Mile Report Line	7
Start Levee Mile	1.29
End Levee Mile	1.29
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the waterside berm.

rduffey_f_20130919_833.JPG					
Levee Mile Report Line	8				
Start Levee Mile	1.50				
End Levee Mile	1.50				
Location	Water Side				
Category	Earthen Levee				
Item	Erosion / Bank Caving				
View of the erosion along	g the waterside berm				







rduffey_f_20130919_834.JPG

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monit : Corrected : Acceptable but Monitor & Maintain

+ Issue Type